

Claims

1. A data reception apparatus comprising:

picture processing means for doing pre-set picture processing using picture data from a data source side;

input/output means for being fed from said data source side with picture data comprehended in a packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard and for outputting a response packet responsive to a command packet conforming to the IEEE 1394 standard from the data source side; and

control means for controlling said input/output means to transmit to said data source side the profile information indicating a profile coped with by said picture processing means, as search results, responsive to the inputting of a command for searching a profile to said input/output means.

2. A data processing method in doing pre-set picture processing using picture data from a data source side, comprising:

a step of being fed from said data source side with picture data comprehended in a packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard;

a step of outputting a response packet responsive to a command packet conforming to the IEEE 1394 standard from the data source side; and

a step of transmitting to said data source side the profile information indicating

a profile coped with, as search results, responsive to the inputting of a command packet for searching the profile of processable picture data.

3. A data transmission device comprising:

picture processing means for processing picture data input from outside to generate picture data;

input/output means for outputting the picture data generated by said picture processing means as the picture data is comprehended in a packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard; and

control means for managing control for generating a command packet for searching a profile coped with by picture data outputting destination to output the generated command packet from said input/output means to a data reception side, said control means also managing control for changing the type of the picture data output by said input/output means based on the profile information specifying the search results from said data reception side.

4. A data processing method comprising:

a step of processing picture signals input from outside to generate picture data;

a step of outputting the picture data generated as the picture data is comprehended in a packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard;

a step of generating a command packet for searching a profile coped with by picture data outputting destination to output the generated command packet to a data

reception side; and

a step of managing control for changing the type of the picture data output based on the profile information specifying the search results transmitted from said data reception side.

5. A data transmission/reception system comprising a data transmission device and a data reception device; said data transmission device including:

first picture processing means for processing picture signals input from outside to generate picture data;

first input/output means for outputting the picture data generated by said first picture processing means to a picture reception device as the picture data generated is comprehended in a packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard; and

first control means for managing control for generating a command packet for searching a profile coped with by picture data reception device to output the generated command packet from said input/output means to said data reception device, said control means also managing control for changing the type of the picture data output by said first input/output means based on the profile information specifying the search results from said data reception side;

said data reception device including

second input/output means for receiving picture data from said first input/output means as the picture data is comprehended in a packet conforming to the IEEE (The

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Institute of Electrical and Electronics Engineers) 1394 standard, and for outputting a response packet responsive to the command packet conforming to the IEEE (The Institute of Electrical and Electronics Engineers) 1394 standard from said first input/output means;

second picture processing means for performing pre-set picture processing using the picture data input by said second picture processing means; and

second control means for controlling said second input/output means, responsive to inputting to said second input/output means of a command for searching a profile from said first input/output means, for outputting the profile information indicating the profile coped with by said picture processing means, as search results, to said data transmitting device.

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